

GARDNER, CARTON & DOUGLAS

ORIGINAL

WRITER'S DIRECT DIAL NUMBER

1301 K STREET, N.W.

SUITE 900, EAST TOWER

WASHINGTON, D.C. 20005

CHICAGO, ILLINOIS

LEE G. PETRO
 (202) 408-7221
 lpetro@gcd.com

(202) 408-7100

FAX: (202) 289-1504

INTERNET: gcrlawdc@gcd.com

MEMBER

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June 29, 2000

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FEDERAL COMMUNICATIONS COMMISSION
 OFFICE OF THE SECRETARY

Magalie Roman Salas, Secretary
 Federal Communications Commission
 445 12th Street, S.W.
 Washington, D.C. 20554

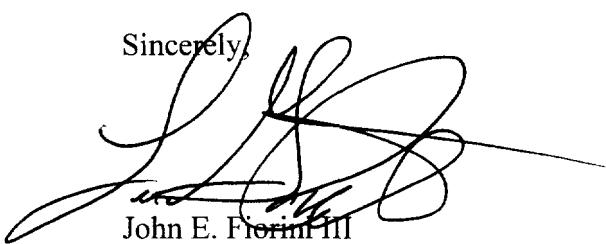
**Re: Petition for Rulemaking
 Amendment of Section 73.622(b), Table of Allotments
 LeSEA Broadcasting Corporation, Licensee
 Station WHNO(TV), New Orleans, Louisiana**

Dear Ms. Salas:

Transmitted herewith, on behalf of LeSEA Broadcasting Corporation, the licensee of Station WHNO(TV), New Orleans, Louisiana, is an original and four (4) copies of its Petition For Rulemaking regarding the amendment of the DTV Table of Allotments.

Should there be any questions, please contact undersigned counsel.

Sincerely,



John E. Fiorini III
 Lee G. Petro

Enclosures

cc: Ms. Pamela Blumenthal, Video Services Division,
 Suite 2-A762

DC01/337662.1

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Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

RECEIVED
JUN 29 2000

*FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY*

In re: }
LeSEA BROADCASTING }
CORPORATION }
Amendment of Section 73.622(b), Table }
of Allotments, Digital Television }
Broadcasting Stations }
(New Orleans, Louisiana) }

MM Docket No. _____

RM - _____

TO: CHIEF, VIDEO SERVICES DIVISION

PETITION FOR RULEMAKING

Pursuant to Section 1.401 of the Commission's rules, 47 C.F.R. § 1.401 (1999), LeSEA Broadcasting Corporation ("LeSEA"), the license of Station WHNO(TV), New Orleans, Louisiana, hereby submits this Petition for Rulemaking to amend the Section 73.622(b) of the Commission's rules, 47 C.F.R. § 73.622(b), to change the DTV allotment for Station WHNO(TV) from Channel 14 to Channel 21 at New Orleans, Louisiana.

As set forth in the attached Engineering Study, *Exhibit One*, LeSEA seeks to change the DTV allotment for Station WHNO(TV) from Channel 14 to Channel 21. The proposed reallocation fully complies with the spacing and interference requirements set forth in Section 73.623 of the Commission's rules. Additionally, LeSEA hopes to eliminate the potential for interference caused to Land Mobile Radio operators licensed to adjacent channels, while enabling Station WHNO to maximize its proposed facilities.

LeSEA has determined that it would be prohibitively expensive to arrange the proper filters for Land Mobile low-powered transmitters, since high-gain antenna technology is not

readily available. LeSEA spent considerable effort in estimating the cost of developing a filter system for this purpose, and determined that the expense would be highly prohibitive, *i.e.*, \$100,000 to \$200,000. Since LeSEA is a tax-exempt religious programmer, it determined that the more cost-effective approach would be to move to Channel 21.

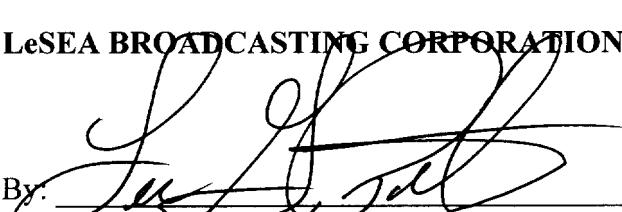
The reallocation of Station WHNO's authorized facility from Channel 14 to Channel 21 would eliminate this concern, and would be fully-compliant with all applicable spacing and interference regulations. As specified in Exhibit One, Station WHNO can operate on Channel 21 without causing impermissible interference to co-channel allotments at Mobile Alabama and Jackson, Mississippi.

Therefore, since the proposed reallocation is in full compliance with Sections 73.622 and 73.623 of the Commission's rules, LeSEA Broadcasting Corporation respectfully requests that the Commission grant the proposed Petition for Rulemaking. LeSEA Broadcasting Corporation affirms that, should the Petition for Rulemaking be granted, it will file an application for the proposed facilities, and, if granted, construct the proposed facilities.

Respectfully submitted,

LeSEA BROADCASTING CORPORATION

By:


John E. Fiorini III

Lee G. Petro

GARDNER, CARTON & DOUGLAS

1301 K Street, N.W., Suite 900

Washington, D.C. 20005

(202) 408-7100

(202) 289-1504

Its Attorneys

June 29, 2000

**Engineering Study
for
Amendment to DTV Table of Allotments**

**DTV Channel 21
New Orleans, Louisiana**

June 12, 2000

**Douglas W. Garlinger
Director of Engineering
LeSEA Broadcasting Corporation
P.O. Box 50450
Indianapolis, IN 46250**

DISCUSSION OF ENGINEERING REPORT

The purpose of this report is to establish the minimum technical criteria for modification of DTV allotments included in the initial DTV table of allotments pursuant to FCC Rules and regulations 73.623(c). LeSEA Broadcasting requests the addition of DTV Channel 21 allotment to the city of New Orleans, Louisiana.

The following information shows compliance with the requirements of 73.623.

73.623(c)(1)

Exhibit E-1 demonstrates compliance with the principal community coverage requirements. The proposed geographical coordinates are: 29° 55' 11" N, 90° 01' 29" W. The proposed DTV Channel 21 would be co-located at the same coordinates as four other New Orleans stations: WHNO-TV20 NTSC, WPXL-TV49 NTSC, WPXL-DTV50 and WHNO-DTV14.

73.623(c)(2), (3) & (4)

Exhibit E-2 is a Longley-Rice Study as per OET Bulletin No. 69 evaluating TV coverage and interference. This study demonstrates that the requested change complies with 73.623(c)(2),(3) & (4).

73.623(d)

Exhibit E-3 is a Dataworld Study performed on June 12, 2000 showing that the proposed Channel 21 allotment meets the minimum geographic spacing requirements for DTV allotments not included in the initial DTV table of allotments.

73.623(e)

The proposed DTV Channel 21 is not within the channel range of 14-20 and does not require protection of land mobile operations on Channels 14-20.

73.623(f)

The proposed DTV Channel 21 will not operate on Channel 6 and does not require a separate engineering study for interference caused to FM radio stations.

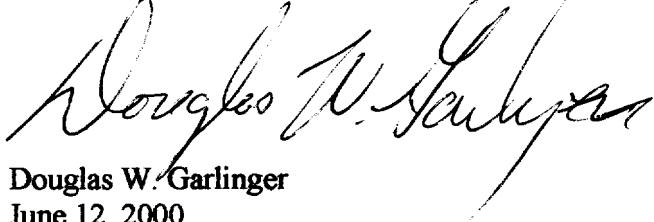
73.623(g)

A negotiated agreement on interference is not included. The proposed change in the table of allotments does not create additional interference beyond that permitted by 73.623(c)(2).

ENGINEERING STATEMENT

LeSEA BROADCASTING CORPORATION

I, certify that I, Douglas W. Garlinger, am employed by the LeSEA Broadcasting Corporation as Director of Engineering, and that I either prepared or had prepared under my direction and supervision, the foregoing statement of technical information. The data contained therein are true to the best of my knowledge and belief.

A handwritten signature in black ink, appearing to read "Douglas W. Garlinger".

Douglas W. Garlinger
June 12, 2000

PROPOSED DTV CH 21
Latitude: 29-55-11 N
Longitude: 090-01-29 W
Power: 300.00 kW
Frequency: 515.0 MHz
Channel: 21
AMSL Height: 255 m
Elevation: 0.0 m
Prop Model: Longley/Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 311.0
Receiver Ht AG: 10.0 m
Time Variability: 50.0%
Siz. Variability: 50.0%
ITM Mode: Broadcast

EXHIBIT E-1

Proposed DTV Channel 21 Coverage

41 dBu Coverage Contour provided over entire city of license

POPULATION: 1,490,418
(1990 Census)

AREA in Sq. Km: 17,990

Douglas W. Garlinger
LeSEA Broadcasting Corp.

Study Date: 06/12/2000

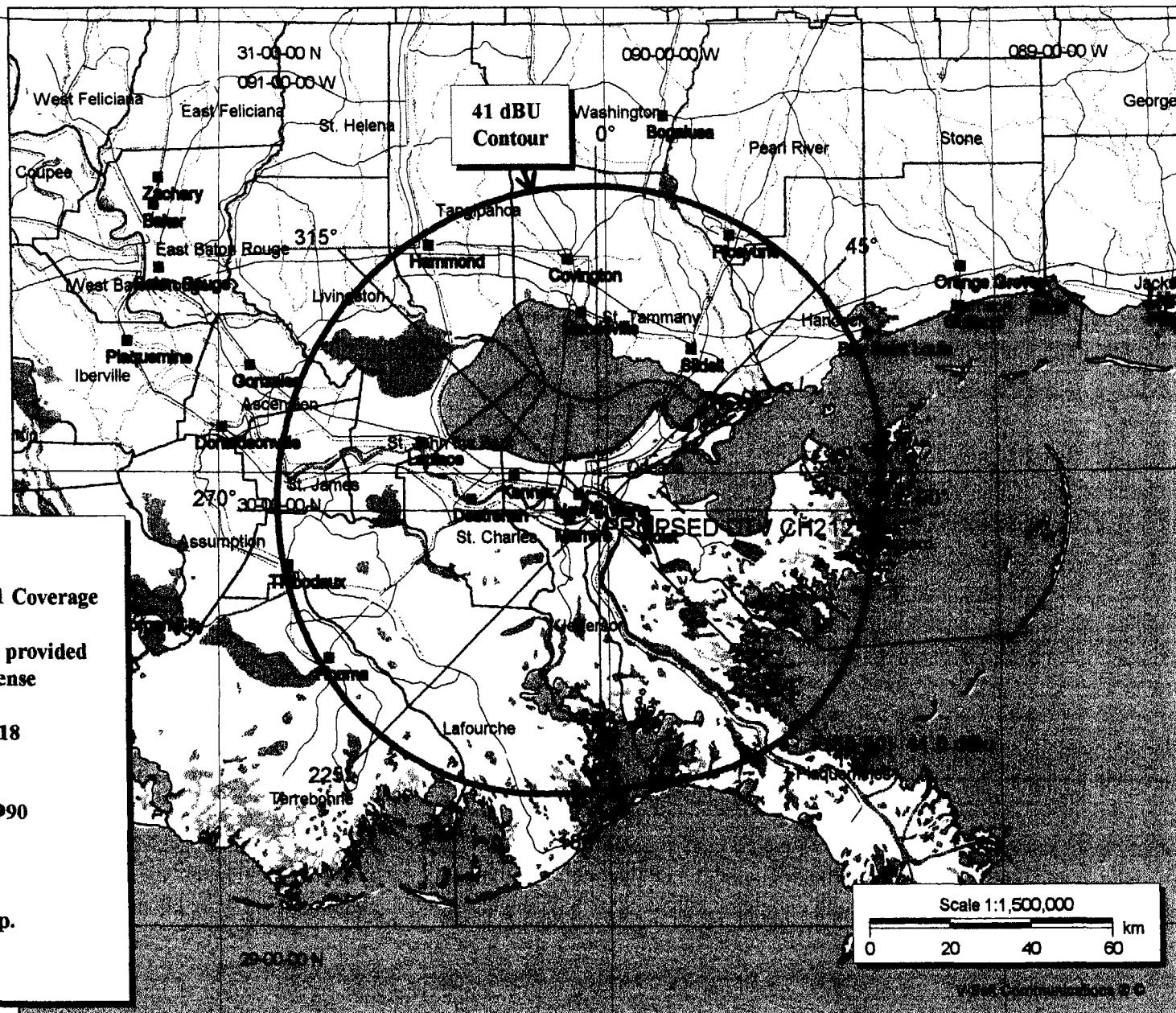


EXHIBIT E-2

**DTV Channel 21
New Orleans, Louisiana
Amendment to DTV Table of Allotments
Engineering Study**

as per OET Bulletin No. 69

using

Longley-Rice Methodology

for

Evaluating TV Coverage and Interference

June 9, 2000

**Douglas W. Garlinger
Director of Engineering
LeSEA Broadcasting Corporation
P.O. Box 50450
Indianapolis, IN 46250**

DISCUSSION OF LONGLEY-RICE STUDY

This report evaluates the proposed change to the DTV Table of Allotments.

Proposed Station:

Coordinates: 29° 55' 11" N,
90° 01' 29" W.

City of License: New Orleans, LA
DTV Channel: 21
DTV Power: 300 kW ERP
ANT HAAT: 254 Meters
AREA (sq. km) 17,990
POPULATION: 1,490,418
ANT PATTERN: SEE EXHIBIT E-4

This Engineering Report evaluates coverage and interference using the Longley-Rice methodology outlined in OET Bulletin No. 69, the Sixth Report and Order and the FCC Rules and Regulations.

This report employs V-Soft Communications PROBE™ software to perform the study. FCC licensed facilities, FCC applications, FCC Construction Permits and DTV channel allotments were considered in the study. Unassigned NTSC Allocations were not considered in the study. The V-Soft Communications PROBE™ software locates all stations within 600 km of the subject station for an incoming interference study and 1200 km for an outgoing interference study.

Stations that exceed the distancing rules and channel spacing requirements were removed from the study. Stations beyond the distance requirements were considered for masking interference.

The areas studied for interference were the overlap areas of the appropriate dipole-factor corrected contours of the stations under study. The areas under study were divided into rectangular 2 km cells. Each cell was analyzed for signal levels using the Irregular Terrain Model (ITM) version 1.2.2. The parameters and procedures used in the propagation study are those specified in Table 4 of OET-69.

The appropriate D/U ratios were applied for Co- and Adjacent channels and NTSC Taboo channel relationships. Interference cells were identified. The 1990 US Census data for the individual cells was retrieved and tabulated for each station causing interference.

The proposed DTV Channel 21 was analyzed in an "outgoing" interference study to identify stations receiving interference. Each station identified as receiving interference was analyzed separately in an "incoming" interference study. This initial study determined the present levels of interference without the operation of Channel 21. This information is summarized in the Study Output Table. Each initial station study is not included in this report but is available upon request.

The DTV parameters of the proposed DTV Channel 21 were then analyzed in the "outgoing" interference study to identify additional interference cells. Each station receiving interference was analyzed separately in an "incoming" interference study to determine additional interference cells caused by the proposed DTV Cannel 21.

All of the outgoing and incoming interference information associated with the proposed DTV Channel 21 are included in this report. This information is also summarized in the Study Output Table. Maps illustrating each station studied are contained at the end of this report.

The *de minimis* standard of no more than 2% additional interference and no more than 10% total interference to population served by the desired station was then applied as outlined in Section 73.623 (c)(2). The total population served by a station was determined from the population values contained in Appendix B of the *Memorandum Opinion and Order on Reconsideration of the Sixth Report and Order*.

Stations receiving additional interference as a result of the proposed DTV Channel 21 allotment:

WMPV-TV, Mobile, Alabama, NTSC Channel 21
WAPT, Jackson, Mississippi, DTV Channel 21

Longley-Rice Study Output Table

Analysis of NTSC Station WMPV-TV, Mobile, Alabama, Channel 21

Appendix B, Sixth R& O	POPULATION 950,000
------------------------	-----------------------

Existing:

Within Studied Noise Limited Contour	948,575
Interference Free:	868,389
Interfered Population:	80,186
Percent Interference	8.44

Proposed:

Within Studied Noise Limited Contour:	948,575
Interference Free:	868,389
Interfered Population:	80,186
Total Percent Interference:	8.44%
Interference caused by DTV CH21:	2,025
Percent Interference caused by DTV CH21:	0.213
Additional population interfered by DTV CH21:	0
Additional Interference caused by DTV CH21:	0.00%

Analysis of DTV station WAPT, Jackson, Mississippi, DTV Channel 21

APPENDIX B, SIXTH R&O	POPULATION
	592,000

Existing:

Within Studied Noise Limited Contour	605,153
Interference Free:	604,125
Interfered Population:	1,028
Percent Interference	0.173

Proposed:

Within Studied Noise Limited Contour:	605,153
Interference Free:	604,103
Interfered Population:	1,050
Total Percent Interference:	0.177%
Interference caused by DTV CH21:	69
Percent Interference caused by DTV CH21:	0.01
Additional population interfered by DTV CH21:	22
Additional Interference caused by DTV CH21:	0.004%

CONCLUSION:

This study information summarized in the Program Output tables above demonstrates that the proposed modification in the operation of the proposed DTV Channel 21 change in the DTV Table of Allotments complies with the requirements of FCC Rules and Regulations, Section 73.623(c)(2).

V-Soft Communications Interference Population Report

TV Outgoing Interference Study

Signal Resolution: 2 km

Consider NTSC Taboo: Yes

Masked interference points are being counted
as interference free.

Study Date: 06/09/2000

Stations which receive interference from **PROPOSED DTV CH 21:**

Call Letters	H Units	Population	Area (sq. km)
WMPVTV	712	2025	134.13
WAPT-D.A	643	1575	162.24

Totals for **PROPOSED DTV CH 21**

Total population to which interference is caused:	3600
Total number of housing units to which interference is caused:	1355

	Housing Units	Population
Alabama		
Mobile County		
WMPVTV	392	1,144

	Housing Units	Population
Mississippi		
Covington County		
WAPT-D.A	212	497
Franklin County		
WAPT-D.A	65	170
George County		
WMPVTV	62	163
Jackson County		
WMPVTV	258	718
Jefferson Davis County		
WAPT-D.A	223	589
Jones County		
WAPT-D.A	12	27
Lawrence County		
WAPT-D.A	4	6
Lincoln County		
WAPT-D.A	124	284
Smith County		
WAPT-D.A	3	2

V-Soft Communications Interference Population Report

TV Incoming Interference Study
 Signal Resolution: 2 km
 Consider NTSC Taboo: Yes

Study Date: 06/09/2000

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WMPV-D.A	5845	16254	1.714	795.79
WDHN-D.C	265	641	0.068	75.36
WTTO	19	36	0.004	12.53
WTTO.C	585	1103	0.116	250.51
WFGX-D.A	15678	38800	4.090	100.93
WFGX.A	22837	52652	5.551	172.42
WFGX	26259	60936	6.424	210.28
WAPT-D.A	940	2273	0.240	338.69
PROPOSED DTV CH 21	712	2025	0.213	134.13

Totals for WMPVTV

Total Population: 948,575
 Interference Free: 868,389
 Interfered Population: 80,186
 Percent Interference: 8.45

	Housing Units	Population	% of
County			
Alabama			
Baldwin County			
WMPVTV	50,877	98,182	
WMPV-D.A	217	277	0.28
WTTO.C	237	315	0.32
WAPT-D.A	253	354	0.36
Conecuh County			
WMPVTV	7	12	
Escambia County			
WMPVTV	12,838	32,019	
WMPV-D.A	178	379	1.18
WDHN-D.C	200	485	1.51
WTTO	19	36	0.11
WTTO.C	302	694	2.17
Mobile County			
WMPVTV	150,955	377,950	
WMPV-D.A	4,799	13,831	3.66
WAPT-D.A	404	1,159	0.31
PROPOSED DTV CH 21	392	1,144	0.30
Monroe County			
WMPVTV	169	408	
WMPV-D.A	25	49	12.01
WTTO.C	37	84	20.59
WAPT-D.A	37	84	20.59

Washington County			
WMPVTV	143	326	
WAPT-D.A	7	20	6.13

County	Housing Units	Population	% of
Florida			
Escambia County			
WMPVTV	112,230	262,798	
Okaloosa County			
WMPVTV	34,680	84,791	
WMPV-D.A	48	129	0.15
WDHN-D.C	29	78	0.09
WFGX-D.A	15,678	38,800	45.76
WFGX.A	22,837	52,652	62.10
WFGX	26,259	60,936	71.87
Santa Rosa County			
WMPVTV	32,816	81,572	
WMPV-D.A	55	131	0.16
WDHN-D.C	36	78	0.10
WTTO.C	9	10	0.01

County	Housing Units	Population	% of
Mississippi			
George County			
WMPVTV	840	2,329	
WMPV-D.A	32	81	3.48
WAPT-D.A	102	271	11.64
WHNO-D.A	62	163	7.00
Jackson County			
WMPVTV	2,931	8,188	
WMPV-D.A	491	1,377	16.82
WAPT-D.A	137	385	4.70
PROPOSED DTV CH 21	258	718	8.77

V-Soft Communications Interference Population Report

TV Incoming Interference Study

Signal Resolution: 2 km

Consider NTSC Taboo: Yes

Interference considered within the reference station's NTSC counterpart's noise limited contour.

Study Date: 06/09/2000

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WMPVTV	30	75	0.012	12.46
WMPN-D.A	457	953	0.157	418.59
AP018	14	28	0.005	4.15
PROPOSED DTV CH 21	36	69	0.011	16.61

Totals for WAPT-D.A

Total Population:	605,153
Interference Free:	604,103
Interfered Population:	1,050
Percent Interference:	0.17

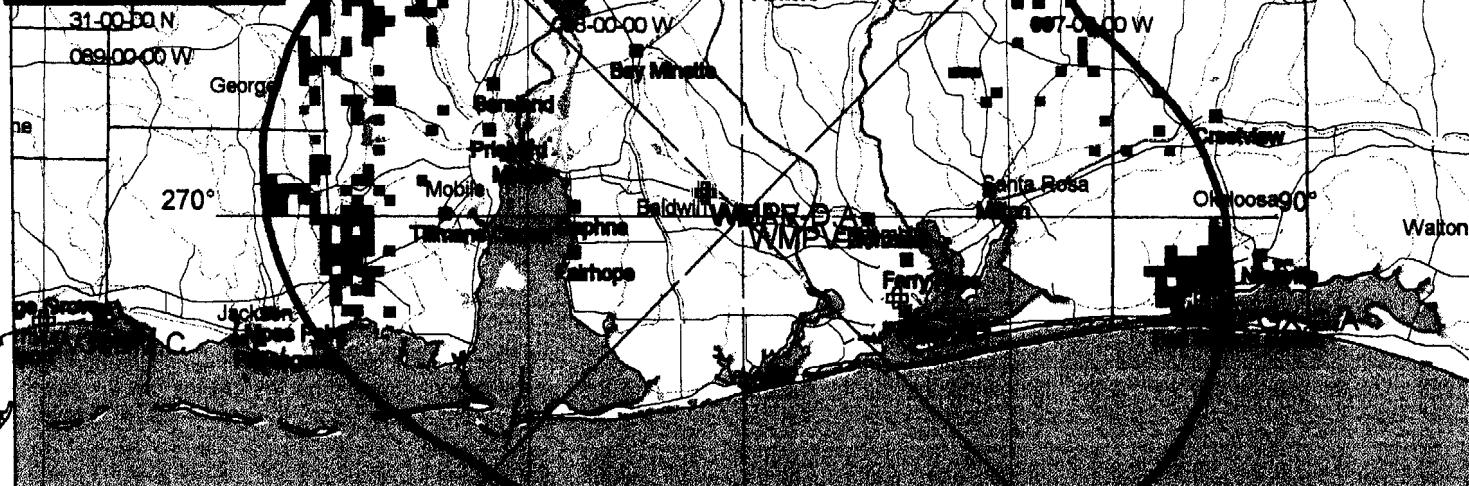
County	Housing Units	Population	% of
Louisiana			
East Carroll Parish			
WAPT-D.A	2	1	
Madison Parish			
WAPT-D.A	400	1,021	
Tensas Parish			
WAPT-D.A	69	84	
WMPN-D.A	32	7	8.33

County	Housing Units	Population	% of
Mississippi			
Attala County			
WAPT-D.A	94	233	
Claiborne County			
WAPT-D.A	3,939	10,279	
WMPN-D.A	130	237	2.31
Copiah County			
WAPT-D.A	10,260	27,592	
WMPN-D.A	44	86	0.31
Covington County			
WAPT-D.A	1,114	2,712	
PROPOSED DTV CH 21	12	20	0.74
Franklin County			
WAPT-D.A	34	68	
Hinds County			
WAPT-D.A	99,860	254,441	
Holmes County			
WAPT-D.A	1,030	3,191	

Humphreys County			
WAPT-D.A	521	1,443	
Issaquena County			
WAPT-D.A	163	401	
Jefferson County			
WAPT-D.A	732	1,858	
WMPN-D.A	98	234	12.59
Jefferson Davis County			
WAPT-D.A	2,626	6,728	
WMPVTV	7	19	0.28
PROPOSED DTV CH 21	7	19	0.28
Lawrence County			
WAPT-D.A	2,665	6,317	
WMPVTV	9	28	0.44
WMPN-D.A	52	142	2.25
PROPOSED DTV CH 21	3	2	0.03
Leake County			
WAPT-D.A	4,688	11,602	
Lincoln County			
WAPT-D.A	3,367	8,732	
WMPN-D.A	101	247	2.83
Madison County			
WAPT-D.A	20,761	53,794	
Rankin County			
WAPT-D.A	31,872	87,161	
Scott County			
WAPT-D.A	7,818	19,867	
Sharkey County			
WAPT-D.A	858	2,747	
Simpson County			
WAPT-D.A	9,374	23,953	
Smith County			
WAPT-D.A	3,074	7,656	
WMPVTV	14	28	0.37
AP018	14	28	0.37
PROPOSED DTV CH 21	14	28	0.37
Warren County			
WAPT-D.A	19,512	47,880	
Yazoo County			
WAPT-D.A	9,495	25,392	

	WMPVTV
■	W19BV
■	WMPV-D.A
■	WDHN-D.C
□	WTTO
■	WTTO.C
■	W36BQ
■	W14CN.C
■	WEAR-D.A
■	W20BG.C
□	W36BU.A
■	W21BK
■	W22CB
■	WSRE
■	WFGX-D.A
■	WPGX
■	WPGX.A
■	WFGX
■	W36BU.C
■	W21BP.C
□	KANC-L
■	KANC-L.C
■	WAPT-D.A
■	WHLT
■	W35BM.C
■	Proposed DTV CH21

WMPVTV
Latitude: 30-35-18 N
Longitude: 087-33-16 W
Power: 4370.00 kW
Frequency: 515.5 MHz
Channel: 21+
AMSL Height: 468 m
Elevation: 46.29 m
Prop Model: Longley/Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 301.0
Receiver Ht AG: 10.0 m
Time Variability: 50.0%
Slt. Variability: 50.0%
ITM Mode: Broadcast



**TV Incoming Interference Study
for WMPV-TV**
Signal Resolution: 2 km
Consider NTSC Taboo: Yes

Douglas W. Garlinger
LeSEA Broadcasting Corp.

Study Date: 06/09/2000

Scale 1:1,500,000
0 20 40 60 km

■	WAPT-D.A
■	WMPVT
■	WTTO
■	WTTO.C
□	W20BR.C
■	KEWW-L
■	KPXJ
■	KLFT-L
■	K21EL.C
■	KANC-L
□	KANC-L.C
■	KMNO-L
■	WMPN-D.A
■	W20BS.C
■	W20BP
■	AP019
■	AP018
■	W22CG.C
■	WHLT
■	Proposed DTV CH21

WAPT-D.A
Latitude: 32-16-41 N
Longitude: 090-17-40 W
Power: 1000.00 kW
Frequency: 515.0 MHz
Channel: 21
AMSL Height: 423 m
Elevation: 122.0 m
Prop Model: Longley/Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 301.0
Receiver Ht AG: 10.0 m
Time Variability: 90.0%
Siz. Variability: 50.0%
ITM Mode: Broadcast

TV Incoming Interference Study for WAPT

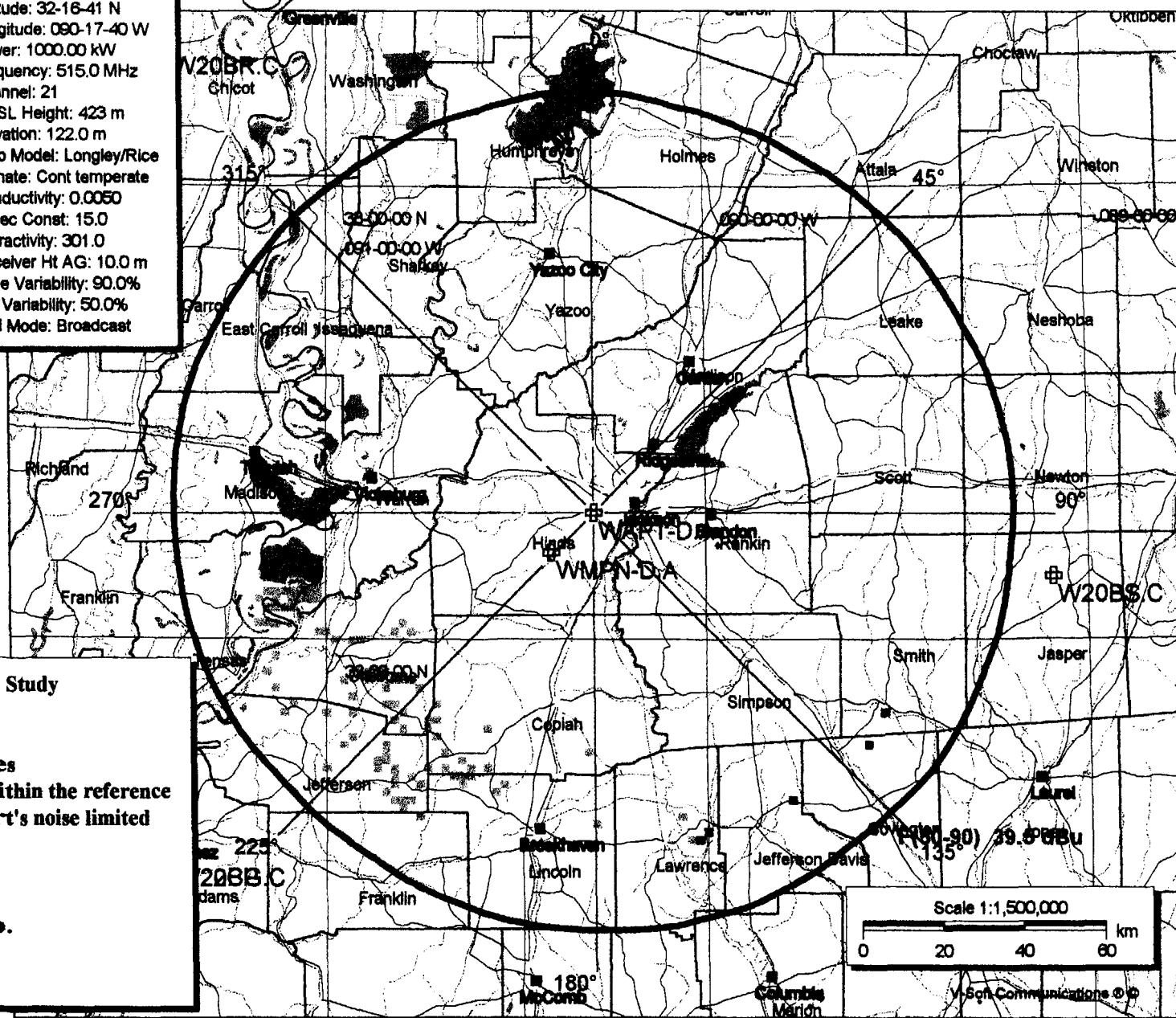
Signal Resolution: 2 km

Consider NTSC Taboo: Yes

Interference considered within the reference station's NTSC counterpart's noise limited contour.

Douglas W. Garlinger
LeSEA Broadcasting Corp.

Study Date: 06/09/2000



**LeSEA Engineering
Indianapolis, IN**

Page 1
Monday, June 12, 2000

Dataworld Digital TV Channel Study

EXHIBIT E-3

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Job Title: New Orleans, LA Channel 21 DTV allotment

Channel(s): 21 Zone III
Coordinates: N 29° 55' 11.0" W 90° 01' 29.0"
Safety Zone: 60.0 km (37.3 mi)
TV translators included

Dataworld Digital TV Spacing Study

Title: New Orleans, LA Channel 21 DTV allotment

Latitude: N 29° 55' 11.0"

Channel: 21 Zone III (512-518 MHz) Digital

Database: DW 6/9/2000 4:32:34 PM

Longitude: W 90° 01' 29.0"

Safety Zone: 60.0 km

Call City of License	Auth	Licensee name	St	FCC File Number	Chan Zone	HAAT(m) HAMSL(m)	ERP (kW)	Latitude	Br-to -from	Dist (km)	Req (km)
K14IE New Orleans To K66FW;; DA: DIE TLP16-M @ 40.0°	Lic	South Central LPTV, Inc.	LA	BLTTL-920413JH	14 +	247.8 248.1	8.91	N 29° 55' 11.0" W 90° 01' 29.0"	0.0	0.000	LPTV
ALLOC Morgan City			LA		*14 +	0.0 0.0	0	N 29° 41' 54.0" W 91° 12' 24.0"	258.1 77.5	116.9 20.27	96.60 CLEAR
WMAU-TV Bude	Lic	Mississippi Authority for Educat	MS	BLET-298	*17 +	341.0 461.0	661	N 31° 22' 19.0" W 90° 45' 05.0"	336.9 156.5	175.4 78.82	96.60 CLEAR
Primary station: WMPN-TV Jackson, MS											
KBTR-LP Baton Rouge	CP	Great Oaks Broadcasting Corporat	LA	BPTTL-960517P6	19	117.3	34	N 30° 27' 06.0" W 91° 11' 14.0"	298.2 117.6	126.5	LPTV
KBTR-LP Baton Rouge	Lic	Great Oaks Broadcasting Corporat	LA	BLTTL-880916IR	19	104.5 122.0	18.8	N 30° 27' 06.0" W 91° 11' 14.0"	298.2 117.6	126.5	LPTV
WMAH-TV Biloxi	Lic	Mississippi Authority for Educat	MS	BLET-910610KE	*19 +	478.0 516.0	1620	N 30° 45' 14.0" W 88° 56' 44.0"	47.9 228.4	139.0 42.40	96.60 CLEAR
DA: DIE ODD910610KE @ 0.0°; Primary station: WMPN-TV Jackson, MS											
WMAH-TV Biloxi	App	Mississippi Authority for Educat	MS	BPET-20000110ABI	*19 +	474.0 511.0	1620	N 30° 45' 18.0" W 88° 56' 44.0"	47.8 228.4	139.1 42.48	96.60 CLEAR
DA: @ 0.0°; Primary station: WMPN-TV Jackson, MS											
WHNO New Orleans	CP	Le Sea Broadcasting Corporation	LA	BMPCT-960702KE	20 - III	275.0 275.0	5000	N 29° 55' 11.0" W 90° 01' 29.0"	0.0 0.0	0.000 12.00	12.00 CoLoc
CP granted 9/25/98 per 44342-10/07/98;; DA: HAR ODD941101KE @ 0.0°											
WHNO New Orleans	Lic	Le Sea Broadcasting Corporation	LA	BLCT-941101KE	20 - III	275.0 275.0	3720	N 29° 55' 11.0" W 90° 01' 29.0"	0.0 0.0	0.000 12.00	12.00 CoLoc
DA: HAR ODD941101KE @ 0.0°											
KANC-LP Baton Rouge	Lic	Great Oaks Broadcasting Corporat	LA	BLTTL-950329IB	21 o	93.0	23.3	N 30° 26' 02.0" W 91° 05' 09.0"	299.5 119.0	117.0	LPTV
KANC-LP Baton Rouge	CP	Great Oaks Broadcasting Corporat	LA	BMPTTL-990319JA	21 o	152.0	41	N 30° 30' 08.0" W 91° 12' 28.0"	300.0 119.4	130.9	LPTV
CP granted 8/30/99 per 44564-9/3/99;; DA: ANT ACS24C @ 120.0°											
KLFT-LP Lafayette	Lic	K. Sandoval Burke	LA	BLTTL-910826JH	21 +	116.7 123.1	32.8	N 30° 15' 41.0" W 92° 02' 09.0"	281.6 100.6	197.5	LPTV
DA: AND ALP32L3-HSOC @ 180.0°											
WMPV-TV Mobile	Lic	All American TV, Inc.	AL	BLCT-860103KF	21 + III	436.0 468.0	4370	N 30° 35' 18.0" W 87° 33' 16.0"	72.0 253.2	249.0 4.429	244.6 CLOSE
Counterproposal to DOC-95-82; Also RM-8743; Option I & II;; DA: BOG ODD860103KF @ 0.0°											

Dataworld Digital TV Spacing Study

Title: New Orleans, LA Channel 21 DTV allotment

Latitude: N 29° 55' 11.0"

Channel: 21 Zone III (512-518 MHz) Digital

Longitude: W 90° 01' 29.0"

Database: DW 6/9/2000 4:32:34 PM

Safety Zone: 60.0 km

Call City of License	Auth	Licensee name	St	FCC File Number	Chan Zone	HAAT(m) HAMSL(m)	ERP (kW)	Latitude Longitude	Br-to from	Dist (km)	Req (km)
WAPT Jackson	DTV	WAPT Hearst-Argyle Television, I MS			21 II	359.0 450.0	239.7	N 32° 16' 39.0" W 90° 17' 41.0"	354.5 174.3	262.7 38.97	223.7 CLEAR
Digital channel; a _____a To K41ES;; DA: rep MSJACKSON					21 @ 0.0°						
<hr/>											
WAPT Jackson	App	WAPT Hearst-Argyle Television, I MS		BPCDT-990915TM	21 II	332.0 423.0	1000	N 32° 16' 41.0" W 90° 17' 40.0"	354.5 174.3	262.7 39.03	223.7 CLEAR
Digital channel; DTV channel;											
K21EL Alexandria	CP	Joseph R. Liska, Jr.	LA	BPTTL-960517NX	21 -		10.9	N 31° 18' 24.0" W 92° 24' 12.0"	304.7 123.5	275.1	LPTV
CP granted 4/9/1998 per 44217;						180.0					
WHLT Hattiesburg	Lic	Media General Broadcasting, Inc.	MS	BLCT-870624KF	22 o III	244.0 310.0	1200	N 31° 24' 20.0" W 89° 14' 13.0"	24.3 204.7	181.2 75.20	106.0 CLEAR
Primary station: WJTV Jackson, MS											
WSTY-LP Hammond	Lic	American Television, Inc.	LA	BLTTL-990104JE	23 o		24.3	N 30° 32' 26.0" W 90° 29' 07.0"	327.5 147.2	81.87	LPTV
License granted 2/12/99 per 44431-2/18/99;; Primary station: KBTR-LP Baton Rouge, LA						176.3					
ALLOC Biloxi			MS		25 - III	0.0 0.0	0	N 30° 23' 48.0" W 88° 52' 60.0"	63.9 244.5	122.0 25.41	96.60 CLEAR
WXXV-TV Gulfport	Lic	Morris Network of Mississippi, I	MS	BLCT-870224KG	25 - III	488.0 533.0	2240	N 30° 44' 48.0" W 89° 03' 30.0"	45.0 225.5	130.5 33.94	96.60 CLEAR
DA: HAR ODD840824KJ @ 0.0°											
ALLOC Mccomb			MS		28 - III	0.0 0.0	0	N 31° 14' 42.0" W 90° 27' 12.0"	344.6 164.3	152.6 55.96	96.60 CLEAR
_____ A>Y_License granted 3/24/2000 per 44701-3/29/2000;											
NEW Mccomb	App	Marri Broadcasting, LP	MS	BPCT-960920YQ	28 - III	137.0 253.0	1510	N 31° 16' 50.0" W 90° 27' 05.0"	345.0 164.8	156.3 59.71	96.60 CLEAR

>> End of channel 21 Zone III study <<

Dataworld Digital TV Spacing Study

Title: New Orleans, LA Channel 21 DTV allotment

Latitude: N 29° 55' 11.0"

Channel: 21 Zone III (512-518 MHz) Digital

Database: FCC 12/27/1999 12:00:00 AM

Longitude: W 90° 01' 29.0"

Safety Zone: 60.0 km

Call City of License	Auth	Licensee name	St	FCC File Number	Chan Zone	HAAT(m) HAMSL(m)	ERP (kW)	Latitude	Br-to -from	Dist (km)	Req (km)
K14IE NEW ORLEANS	LIC	SOUTH CENTRAL LPTV, INC.	LA	BLTTL-920413JH	14 +	248.0	8.91	N 29° 55' 11.0" W 90° 01' 29.0"	0.0	0.000	LPTV
TO CH. 66.; DA: DIE TLP16-M @ 40.0°											
ALLOC MORGAN CITY			LA		*14 + III			N 29° 41' 54.0" W 91° 12' 24.0"	258.1 77.5	116.9 20.27	96.60 CLEAR
WMAU-TV BUDE	LIC	MISSISSIPPI AUTHORITY FOR EDUC.	MS	BLET-298	*17 + III	341.0 461.0	661	N 31° 22' 19.0" W 90° 45' 05.0"	336.9 156.5	175.4 78.82	96.60 CLEAR
ALLOC LAUREL			MS		18 + III			N 31° 41' 24.0" W 89° 08' 08.0"	23.1 203.6	213.9 117.3	96.60 CLEAR
KBTR-LP BATON ROUGE	LIC	GREAT OAKS BROADCASTING CORPORAT	LA	BLTTL-880916IR	19 0	122.0	18.8	N 30° 27' 06.0" W 91° 11' 14.0"	298.2 117.6	126.5	LPTV
CALL SIGN CHANGED FROM W19AW											
KBTR-LP BATON ROUGE	CP	GREAT OAKS BROADCASTING CORPORAT	LA	BPTTL-960517P6	19 0	115.0	34	N 30° 27' 06.0" W 91° 11' 16.0"	298.2 117.6	126.6	LPTV
WMAH-TV BILOXI	LIC	MISSISSIPPI AUTHORITY FOR EDUC.	MS	BLET-910610KE	*19 + III	478.0 516.0	1620	N 30° 45' 14.0" W 88° 56' 44.0"	47.9 228.4	139.0 42.40	96.60 CLEAR
DA: DIE ODD910610KE @ 0.0°											
WHNO NEW ORLEANS	LIC	LESEA BROADCASTING CORPORATION	LA	BLCT-941101KE	20 - III	275.0 275.0	3720	N 29° 55' 11.0" W 90° 01' 29.0"	0.0 0.0	0.000 12.00	12.00 CoLoc
DA: HAR ODD941101KE @ 0.0°											
WHNO NEW ORLEANS	CP M	LESEA BROADCASTING CORPORATION	LA	BMPCT-960702KE	20 - III	275.0 275.0	5000	N 29° 55' 11.0" W 90° 01' 29.0"	0.0 0.0	0.000 12.00	12.00 CoLoc
DA: HAR ODD941101KE @ 0.0°											
KANC-LP BATON ROUGE	LIC	GREAT OAKS BROADCASTING CORPORAT	LA	BLTTL-950329IB	21 0	93.0	23.3	N 30° 26' 02.0" W 91° 05' 09.0"	299.5 119.0	117.0	LPTV
CALL SIGN CHANGED FROM K21DQ											
KANC-LP BATON ROUGE	CP M	GREAT OAKS BROADCASTING CORPORAT	LA	BMPTTL-990319JA	21 0	152.0	41	N 30° 30' 08.0" W 91° 12' 28.0"	300.0 119.4	130.9	LPTV
DA: ANT ACS24C @ 120.0°											
KLFT-LP LAFAYETTE	LIC	K. SANDOVAL BURKE	LA	BLTTL-910826JH	21 +	123.0	32.8	N 30° 15' 41.0" W 92° 02' 08.0"	281.6 100.6	197.5	LPTV
CALL SIGN CHANGED FROM K21DM EFFECTIVE 12-01-95; DA: AND ALP32L3-HSOC @ 180.0°											
WMPV-TV MOBILE	LIC	ALL AMERICAN TV, INC.	AL	BLCT-860103KF	21 + III	436.0 468.0	4370	N 30° 35' 18.0" W 87° 33' 16.0"	72.0 253.2	249.0 4.429	244.6 CLOSE
DA: BOG ODD860103KF @ 0.0°											

Dataworld Digital TV Spacing Study

Title: New Orleans, LA Channel 21 DTV allotment

Latitude: N 29° 55' 11.0"

Channel: 21 Zone III (512-518 MHz) Digital

Longitude: W 90° 01' 29.0"

Database: FCC 12/27/1999 12:00:00 AM

Safety Zone: 60.0 km

Call City of License	Auth	Licensee name	St	FCC File Number	Chan Zone	HAAT(m) HAMSL(m)	ERP (kW)	Latitude Longitude	Br-to -from	Dist (km)	Req (km)
WAPT-DT JACKSON	APP	ARGYLE TELEVISION, INC.	MS	BPCDT-990915TM	21 II	332.0 423.0	1000	N 32° 16' 41.0" W 90° 17' 40.0"	354.5 174.3	262.7 39.03	223.7 CLEAR
Digital channel; DIGITAL TV											
K21EL ALEXANDRIA	CP	JOSEPH R. LISKA	LA	BPTTL-960517NX	21 -	10.9 180.0	10.9	N 31° 18' 24.0" W 92° 24' 12.0"	304.7 123.5	275.1	LPTV
WTNO-LP DONALDSONVILLE	LIC	GREAT OAKS BROADCASTING CORPORAT	LA	BLTTL-950901IC	22 +	146.0	18.6	N 30° 06' 14.0" W 91° 00' 57.0"	282.4 101.9	97.77	LPTV
TO CH. 22; NEW ORLEANS, LA. CALL CHANGED FROM K22DJ.; DA: BOG B16UA @ 25.0°											
WSTY-LP HAMMOND	LIC	AMERICAN TELEVISION, INC.	LA	BLTTL-990104JE	23 -	176.0	24.3	N 30° 32' 26.0" W 90° 29' 07.0"	327.5 147.2	81.87	LPTV
WXXV-TV GULFPORT	LIC	MORRIS NETWORK OF MISSISSIPPI, I	MS	BLCT-870224KG	25 - III	488.0 533.0	2240	N 30° 44' 48.0" W 89° 03' 30.0"	45.0 225.5	130.5 33.94	96.60 CLEAR
DA: HAR ODD840824KJ @ 0.0°											
ALLOC MCCOMB			MS		28 - III			N 31° 14' 42.0" W 90° 27' 12.0"	344.6 164.3	152.6 55.96	96.60 CLEAR
NEW MCCOMB	APP	MARRI BROADCASTING, L.P.	MS	BPCT-960920YQ	28 - III	137.0 253.0	1510	N 31° 16' 50.0" W 90° 27' 05.0"	345.0 164.8	156.3 59.71	96.60 CLEAR
REQUESTS A WAIVER OF FREEZE											
W29BH BILOXI	LIC	TCCSA/DBA TRINITY B/CASTING NETW	MS	BLTT-920309JI	29 0	58.0	22.8	N 30° 23' 36.0" W 89° 00' 01.0"	61.6 242.1	111.8	LPTV
TO CH-35											

>> End of channel 21 Zone III study <<

Dielectric

Date 12 Jun 2000
Call Letters
Location New Orleans, LA
Customer
Antenna Type TFU-10DSC S180

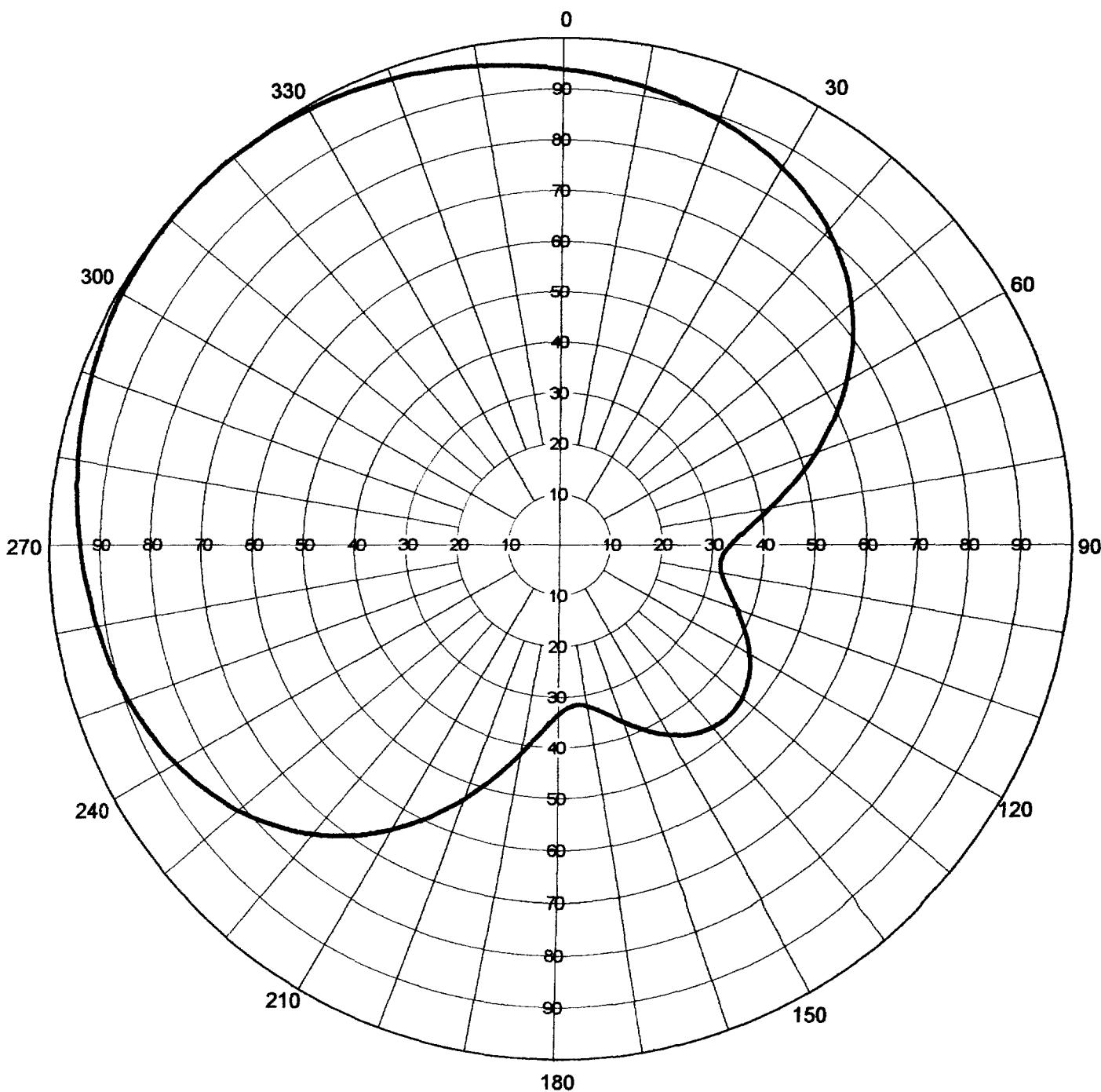
Channel 21

RMS Gain at Main Lobe
Calculated / Measured

AZIMUTH PATTERN

1.80 (2.55 dB)
Calculated

Frequency 515 MHz
Drawing # S180



Remarks: Proposed Antenna Pattern

Dielectric

Date 12 Jun 2000
Call Letters
Location New Orleans, LA
Customer
Antenna Type TFU-10DSC S180

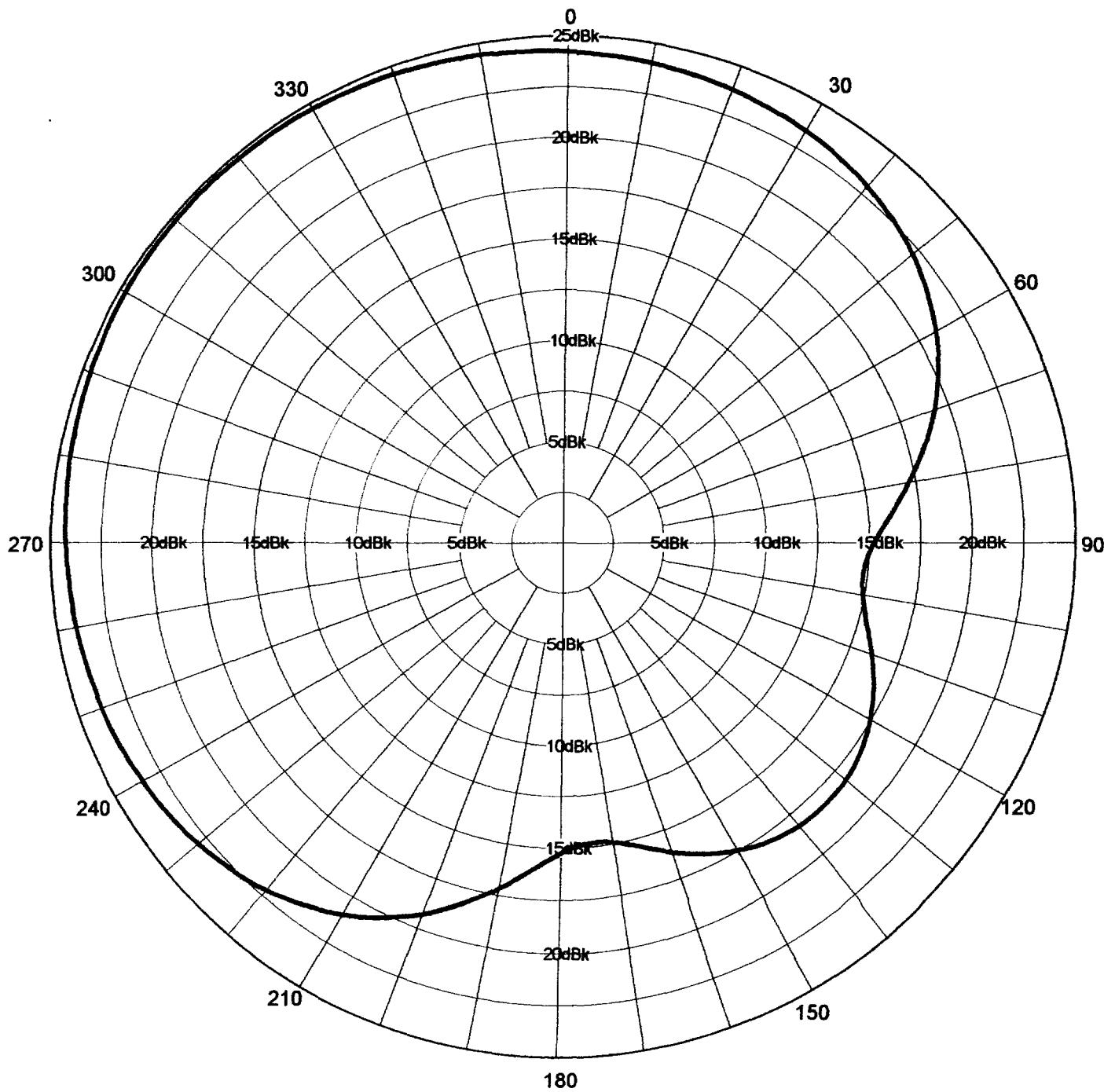
Channel 21

AZIMUTH PATTERN

RMS Gain at Main Lobe
Calculated / Measured

1.80 (2.55 dB)
Calculated

Frequency 515 MHz
Drawing # S180



Remarks: Proposed Antenna Pattern

Dielectric

Date 12 Jun 2000
 Call Letters Channel 21
 Location New Orleans, LA
 Customer
 Antenna Type TFU-10DSC S180

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # S180

Angle	Field	ERP (kW)	ERP (dBk)
0	0.939	265	24.22
10	0.917	252	24.02
20	0.893	239	23.79
30	0.860	222	23.46
40	0.812	198	22.96
50	0.741	165	22.17
60	0.647	126	20.99
70	0.533	85	19.31
80	0.417	52	17.17
90	0.335	34	15.27
100	0.323	31	14.96
110	0.372	42	16.18
120	0.432	56	17.48
130	0.470	66	18.21
140	0.470	66	18.21
150	0.432	56	17.48
160	0.372	42	16.18
170	0.323	31	14.96
180	0.335	34	15.27
190	0.417	52	17.17
200	0.533	85	19.31
210	0.647	126	20.99
220	0.741	165	22.17
230	0.812	198	22.96
240	0.860	222	23.46
250	0.893	239	23.79
260	0.917	252	24.02
270	0.939	265	24.22
280	0.959	276	24.41
290	0.977	286	24.57
300	0.991	295	24.69
310	0.999	299	24.76
320	0.999	299	24.76
330	0.991	295	24.69
340	0.977	286	24.57
350	0.959	276	24.41

Maxima

Angle	Field	ERP (kW)	ERP (dBk)
135	0.475	68	18.31
315	1.000	300	24.77

Minima

Angle	Field	ERP (kW)	ERP (dBk)
96	0.318	30	14.82
174	0.318	30	14.82

Remarks: Proposed Antenna Pattern



Date 12 Jun 2000
 Call Letters
 Location New Orleans, LA
 Customer
 Antenna Type TFU-10DSC S180

Channel 21

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # S180

Angle	Field														
0	0.939	45	0.780	90	0.335	135	0.475	180	0.335	225	0.780	270	0.939	315	1.000
1	0.937	46	0.773	91	0.330	136	0.475	181	0.340	226	0.787	271	0.941	316	1.000
2	0.934	47	0.765	92	0.326	137	0.474	182	0.346	227	0.793	272	0.943	317	1.000
3	0.932	48	0.758	93	0.323	138	0.473	183	0.353	228	0.800	273	0.945	318	1.000
4	0.930	49	0.750	94	0.320	139	0.472	184	0.361	229	0.806	274	0.947	319	0.999
5	0.928	50	0.741	95	0.319	140	0.470	185	0.369	230	0.812	275	0.949	320	0.999
6	0.926	51	0.733	96	0.318	141	0.468	186	0.378	231	0.818	276	0.951	321	0.999
7	0.924	52	0.724	97	0.318	142	0.465	187	0.387	232	0.823	277	0.953	322	0.998
8	0.922	53	0.715	98	0.319	143	0.462	188	0.397	233	0.829	278	0.955	323	0.997
9	0.920	54	0.706	99	0.320	144	0.459	189	0.407	234	0.834	279	0.957	324	0.997
10	0.917	55	0.697	100	0.323	145	0.455	190	0.417	235	0.839	280	0.959	325	0.996
11	0.915	56	0.687	101	0.326	146	0.451	191	0.428	236	0.843	281	0.961	326	0.995
12	0.913	57	0.677	102	0.329	147	0.447	192	0.439	237	0.848	282	0.963	327	0.994
13	0.910	58	0.667	103	0.333	148	0.442	193	0.450	238	0.852	283	0.965	328	0.993
14	0.908	59	0.657	104	0.338	149	0.438	194	0.462	239	0.856	284	0.967	329	0.992
15	0.906	60	0.647	105	0.343	150	0.432	195	0.474	240	0.860	285	0.968	330	0.991
16	0.903	61	0.636	106	0.348	151	0.427	196	0.485	241	0.864	286	0.970	331	0.990
17	0.901	62	0.625	107	0.354	152	0.421	197	0.497	242	0.868	287	0.972	332	0.989
18	0.898	63	0.614	108	0.359	153	0.416	198	0.509	243	0.871	288	0.974	333	0.988
19	0.896	64	0.603	109	0.366	154	0.410	199	0.521	244	0.875	289	0.976	334	0.986
20	0.893	65	0.591	110	0.372	155	0.403	200	0.533	245	0.878	290	0.977	335	0.985
21	0.890	66	0.580	111	0.378	156	0.397	201	0.545	246	0.881	291	0.979	336	0.983
22	0.887	67	0.568	112	0.384	157	0.391	202	0.556	247	0.884	292	0.980	337	0.982
23	0.884	68	0.556	113	0.391	158	0.384	203	0.568	248	0.887	293	0.982	338	0.980
24	0.881	69	0.545	114	0.397	159	0.378	204	0.580	249	0.890	294	0.983	339	0.979
25	0.878	70	0.533	115	0.403	160	0.372	205	0.591	250	0.893	295	0.985	340	0.977
26	0.875	71	0.521	116	0.410	161	0.366	206	0.603	251	0.896	296	0.986	341	0.976
27	0.871	72	0.509	117	0.416	162	0.359	207	0.614	252	0.898	297	0.988	342	0.974
28	0.868	73	0.497	118	0.421	163	0.354	208	0.625	253	0.901	298	0.989	343	0.972
29	0.864	74	0.485	119	0.427	164	0.348	209	0.636	254	0.903	299	0.990	344	0.970
30	0.860	75	0.474	120	0.432	165	0.343	210	0.647	255	0.906	300	0.991	345	0.968
31	0.856	76	0.462	121	0.438	166	0.338	211	0.657	256	0.908	301	0.992	346	0.967
32	0.852	77	0.450	122	0.442	167	0.333	212	0.667	257	0.910	302	0.993	347	0.965
33	0.848	78	0.439	123	0.447	168	0.329	213	0.677	258	0.913	303	0.994	348	0.963
34	0.843	79	0.428	124	0.451	169	0.326	214	0.687	259	0.915	304	0.995	349	0.961
35	0.839	80	0.417	125	0.455	170	0.323	215	0.697	260	0.917	305	0.996	350	0.959
36	0.834	81	0.407	126	0.459	171	0.320	216	0.706	261	0.920	306	0.997	351	0.957
37	0.829	82	0.397	127	0.462	172	0.319	217	0.715	262	0.922	307	0.997	352	0.955
38	0.823	83	0.387	128	0.465	173	0.318	218	0.724	263	0.924	308	0.998	353	0.953
39	0.818	84	0.378	129	0.468	174	0.318	219	0.733	264	0.926	309	0.999	354	0.951
40	0.812	85	0.369	130	0.470	175	0.319	220	0.741	265	0.928	310	0.999	355	0.949
41	0.806	86	0.361	131	0.472	176	0.320	221	0.750	266	0.930	311	0.999	356	0.947
42	0.800	87	0.353	132	0.473	177	0.323	222	0.758	267	0.932	312	1.000	357	0.945
43	0.793	88	0.346	133	0.474	178	0.326	223	0.765	268	0.934	313	1.000	358	0.943
44	0.787	89	0.340	134	0.475	179	0.330	224	0.773	269	0.937	314	1.000	359	0.941

Remarks: Proposed Antenna Pattern

Dielectric

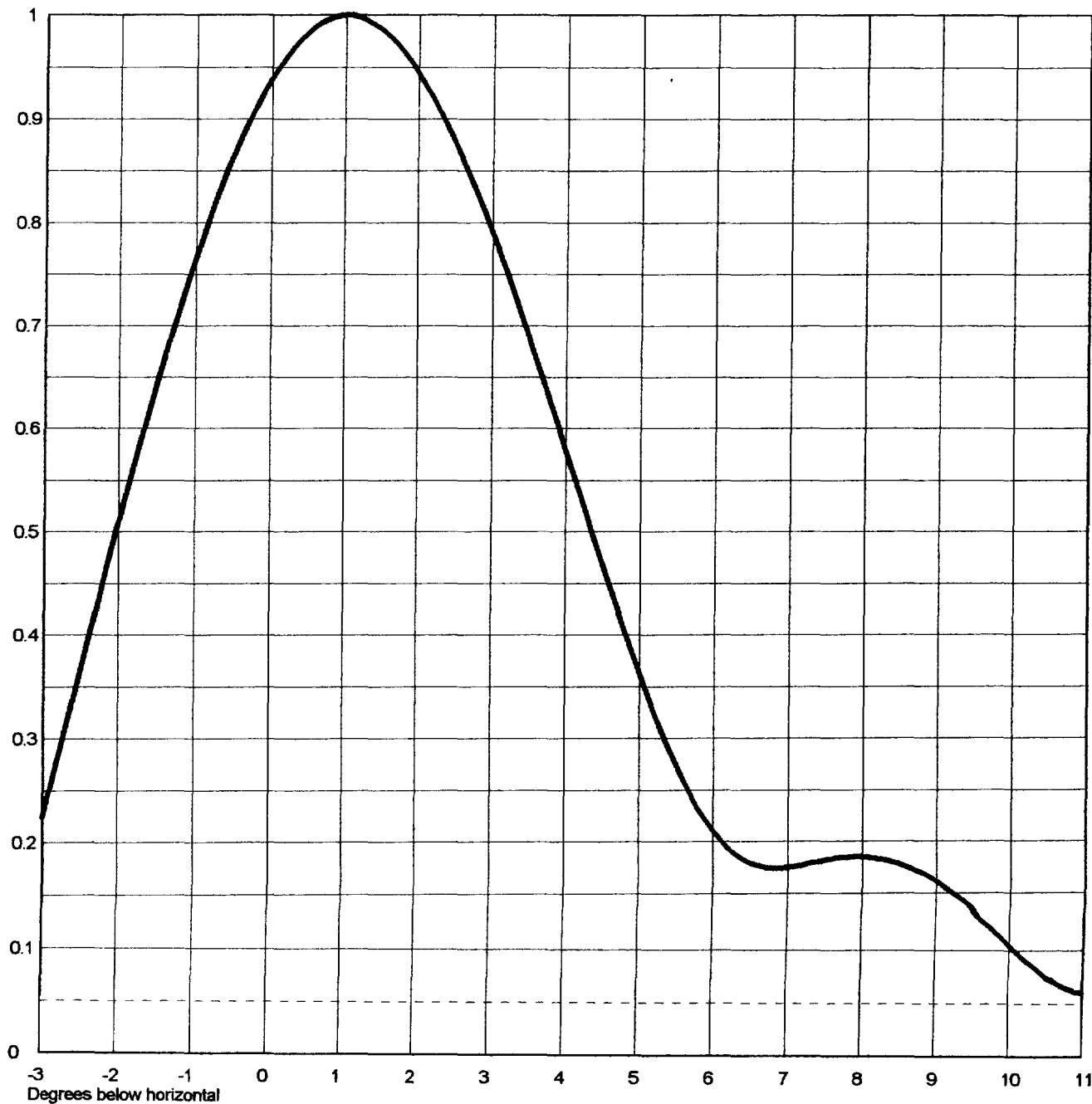
Date 12 Jun 2000
Call Letters
Location New Orleans, LA
Customer
Antenna Type TFU-10DSC S180

Channel 21

ELEVATION PATTERN

RMS Gain at Main Lobe 9.5 (9.78 dB)
RMS Gain at Horizontal 8.4 (9.24 dB)
Calculated / Measured Calculated

Beam Tilt 1.00 Degrees
Frequency 515.00 MHz
Drawing # 10Q09510



Remarks: Proposed Antenna Pattern



Date 12 Jun 2000
 Call Letters Channel 21
 Location New Orleans, LA
 Customer
 Antenna Type TFU-10DSC S180

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # 10Q09510

Angle	Field										
-10.0	0.251	2.4	0.893	10.6	0.071	30.5	0.171	51.0	0.075	71.5	0.042
-9.5	0.296	2.6	0.862	10.8	0.064	31.0	0.171	51.5	0.076	72.0	0.048
-9.0	0.344	2.8	0.828	11.0	0.060	31.5	0.167	52.0	0.077	72.5	0.053
-8.5	0.392	3.0	0.791	11.5	0.067	32.0	0.159	52.5	0.078	73.0	0.058
-8.0	0.432	3.2	0.752	12.0	0.084	32.5	0.147	53.0	0.080	73.5	0.062
-7.5	0.461	3.4	0.710	12.5	0.101	33.0	0.133	53.5	0.083	74.0	0.065
-7.0	0.473	3.6	0.668	13.0	0.112	33.5	0.117	54.0	0.086	74.5	0.067
-6.5	0.466	3.8	0.624	13.5	0.115	34.0	0.100	54.5	0.091	75.0	0.069
-6.0	0.436	4.0	0.579	14.0	0.110	34.5	0.085	55.0	0.098	75.5	0.070
-5.5	0.383	4.2	0.535	14.5	0.100	35.0	0.071	55.5	0.105	76.0	0.070
-5.0	0.307	4.4	0.490	15.0	0.089	35.5	0.059	56.0	0.113	76.5	0.070
-4.5	0.212	4.6	0.446	15.5	0.083	36.0	0.050	56.5	0.121	77.0	0.070
-4.0	0.114	4.8	0.404	16.0	0.087	36.5	0.043	57.0	0.130	77.5	0.068
-3.5	0.106	5.0	0.364	16.5	0.101	37.0	0.038	57.5	0.138	78.0	0.067
-3.0	0.224	5.2	0.326	17.0	0.119	37.5	0.034	58.0	0.145	78.5	0.065
-2.8	0.280	5.4	0.291	17.5	0.136	38.0	0.032	58.5	0.151	79.0	0.063
-2.6	0.337	5.6	0.259	18.0	0.150	38.5	0.034	59.0	0.156	79.5	0.060
-2.4	0.395	5.8	0.232	18.5	0.157	39.0	0.040	59.5	0.160	80.0	0.057
-2.2	0.452	6.0	0.211	19.0	0.157	39.5	0.050	60.0	0.162	80.5	0.054
-2.0	0.509	6.2	0.194	19.5	0.150	40.0	0.062	60.5	0.162	81.0	0.051
-1.8	0.564	6.4	0.183	20.0	0.137	40.5	0.075	61.0	0.161	81.5	0.048
-1.6	0.618	6.6	0.177	20.5	0.118	41.0	0.087	61.5	0.158	82.0	0.044
-1.4	0.669	6.8	0.174	21.0	0.096	41.5	0.099	62.0	0.153	82.5	0.041
-1.2	0.718	7.0	0.175	21.5	0.071	42.0	0.110	62.5	0.147	83.0	0.037
-1.0	0.764	7.2	0.177	22.0	0.046	42.5	0.118	63.0	0.140	83.5	0.034
-0.8	0.807	7.4	0.180	22.5	0.023	43.0	0.124	63.5	0.132	84.0	0.030
-0.6	0.846	7.6	0.183	23.0	0.005	43.5	0.128	64.0	0.122	84.5	0.027
-0.4	0.881	7.8	0.184	23.5	0.013	44.0	0.128	64.5	0.112	85.0	0.023
-0.2	0.911	8.0	0.185	24.0	0.022	44.5	0.127	65.0	0.101	85.5	0.020
0.0	0.938	8.2	0.183	24.5	0.026	45.0	0.122	65.5	0.090	86.0	0.017
0.2	0.960	8.4	0.180	25.0	0.026	45.5	0.116	66.0	0.078	86.5	0.014
0.4	0.977	8.6	0.175	25.5	0.022	46.0	0.109	66.5	0.067	87.0	0.011
0.6	0.990	8.8	0.169	26.0	0.024	46.5	0.101	67.0	0.055	87.5	0.008
0.8	0.997	9.0	0.161	26.5	0.036	47.0	0.093	67.5	0.044	88.0	0.006
1.0	1.000	9.2	0.151	27.0	0.054	47.5	0.085	68.0	0.034	88.5	0.004
1.2	0.998	9.4	0.141	27.5	0.076	48.0	0.079	68.5	0.025	89.0	0.002
1.4	0.991	9.6	0.129	28.0	0.099	48.5	0.075	69.0	0.019	89.5	0.001
1.6	0.980	9.8	0.117	28.5	0.120	49.0	0.072	69.5	0.019	90.0	0.000
1.8	0.964	10.0	0.104	29.0	0.139	49.5	0.072	70.0	0.023		
2.0	0.945	10.2	0.092	29.5	0.154	50.0	0.072	70.5	0.029		
2.2	0.921	10.4	0.081	30.0	0.165	50.5	0.073	71.0	0.036		

Remarks: Proposed Antenna Pattern